There is provided a process for producing a modified polyolefin resin, which comprises the steps of:

- (1) blending at least the following components (A) to(D) to produce a blend:
 - (A) 100 parts by weight of a polyolefin resin.
- (B) from 0.1 to 20 parts by weight of a compound having an epoxy group and an unsaturated bond.
- (C) from 0.01 to 20 parts by weight of an organic peroxide having a decomposition temperature of from 50 to 115 $^{\circ}$ C, at which temperature a half-life thereof is 1 minute, and
- (D) from 0 to 20 parts by weight of an organic peroxid having a decomposition temperature of from 150 to 200 $^{\circ}$ C, at which temperature a half-life thereof is 1 minute, and
- (2) melt-kneading said blend to produce a modified polyolefin resin.

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